

FOLIO

University of Alberta

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Rehab Medicine's Indonesia project under way

Members of the Faculty of Rehabilitation Medicine and their Indonesian colleagues are hoping that the recently established CIDA project will allow both groups to learn from one another.

The first step in the project was taken earlier this month with the visit of two Indonesians, Tjandrakusuma Handoyo, director of the Academy of Physiotherapy, Solo, and Yahdin Hasan Syahlan, an official from the Indonesian Ministry of Health.

"Coming here is really their opportunity to see what we have," says Sharon Brintnell, Chair of the Department of Occupational Therapy.

The principal goal of the \$3/4 million project, funded by CIDA, is the institutional development of the Academy of Physiotherapy. This development will allow the Academy to offer more education, initiate research physiotherapy and develop

programs in occupational therapy and speech pathology and audiology.

The project will support training and applied research in community-based rehabilitation (CBR), an area in which Dr Handoyo is a leading authority.

The University of Alberta will support the graduate training of one current or prospective faculty member of the Academy and the undergraduate training of four prospective faculty, two in occupational therapy and two in speech pathology and audiology.

The project, initiated by Laura Krefting of the Department of Occupational Therapy, will also support the development of a rehabilitation library at the Indonesian Academy and provide instructional and research equipment.

Curriculum development is another facet of the project. "We're educating the educators, but we've

also got to help them design the curriculum for the program they will offer in Indonesia," Professor Brintnell told *Folio*.

Indonesia, with a population of more than 160 million people, is estimated to have 3.8 million disabled people, or 2.4 percent of the population, in need of rehabilitation services. Those needs are now being handled by too few speciality centres and only one education program for rehabilitation professionals.

As well as suffering from a shortage of services and personnel, Indonesia's rehabilitation services are largely concentrated in urban areas, although an estimated 80 percent of the population lives in rural areas.

Dr Handoyo realized that was the case because of the preponderant number of urban patients he was seeing. "There's a real lack of information in the rural areas and services for the disabled are largely concentrated in the urban areas," he told a gathering of Faculty members last week.

Explaining his CBR program, which began 15 years ago, Dr Handoyo said: "We are developing a CBR system which is easily integrated into existing [health care] systems. It's too costly to establish a separate system." He said it is much more efficient integrating the system with high priority programs, such as primary health care and nutrition programs.

The CBR program is one of informing, motivating, educating and training community members in order to change attitudes within communities and to raise knowledge and skill levels. The rehabilitation work is done by specially trained community members and that work is augmented by professionals.

Dr Handoyo emphasized that CBR must recognize the community's existing resources.

Dean Martha Piper said she is hopeful her colleagues can learn from a leader in developing community-based rehabilitation programs and potentially apply what they have learned to the northern areas of Alberta. "We look forward to working with you and learning from you," she said.

Professor Brintnell said "we're excited about learning their strategies and service model. We believe they've done some very innovative things." She added that the University's support for the project demonstrates its willingness and commitment to "go beyond our own borders."

"The challenge will be to take what we know and look at what they know and come to that mix of our knowledge base being appropriate for their country, their clients, their population and their delivery system," she said. □

GFC favors quota for Education Faculty

General Faculties Council is overwhelmingly in favor of a quota for the Faculty of Education.

At its meeting on 26 June, Council, by a vote of 42 to 3, approved a proposal from the Planning and Priorities Committee for application of one quota in 1990-91 and another in 1991-92. (The final decision on the establishment of the quotas rests with the Board of Governors.) In the first instance, the quota would apply to year 2 of the Industrial Arts and Vocational Education components of the Faculty's program.

A quota on enrollment in year 3 in both Elementary Education and Secondary Education would become effective in 1991-92. Enrollment across all disciplines in year 3 would be approximately 720. The overall reduction in the Faculty would be on the order of 200 students.

The intent of the proposal is that the quota affect all students, including those who have already started a particular program.

"More and more students are enrolling in education, and the Faculty is beginning to bear the brunt of this," Dean Bob Patterson told the meeting. Applications for 1989-90 are up 40 percent from the 1988-89 term, Dean Patterson said.

More GFC coverage in the 13 July *Folio*. □



Dr Handoyo and Dean Piper supply details of the project to President Horowitz.

Anthropologists' Chinese medical practices research on hold

Anthropologist David Young's study of traditional medical practices among the People's Republic of China's national minorities has been delayed indefinitely because of recent events in that country. Graduate student Grant Ingram, who was to have met Dr Young in Inner Mongolia, cut short his Mandarin language instruction at Heilongjiang University in Harbin and returned to Canada on 15 June.

"We decided that it would be inappropriate to go ahead with our work at this time," Dr Young said, adding that their Chinese colleagues and hosts were still encouraging them to continue their work this summer. "Hopefully, things will settle down and we can continue our work."

Both Dr Young and Ingram expressed concern over whether

they could conduct their exploratory research in a free and unbiased manner, since they would be accompanied by central authorities. "We have to question whether the people would talk freely," said Ingram.

The Project for the Study of Traditional Healing Practices was established in 1984 to study and document health care practices of ethnic groups within larger nation states; to investigate how pluralistic societies deal with relationships among traditional, alternative and Western medicine; and to develop models of how these various health care practices might be coordinated more effectively in the Canadian North.

"We wanted to broaden out the project and China seemed like the logical place to begin," Dr Young said.

In 1987 Dr Young, Ingram and

Judy Pettigrew, a former U of A graduate student, attended the World Congress of Natural Medicine in Beijing, where they presented their work on native medicine in Canada. They were then invited to return to China to study minority medical traditions. Earlier this year, their colleague, Wei Beihai, director of the Beijing Research Institute of Traditional Chinese Medicine, visited the University of Alberta to lecture, conduct seminars and workshops and learn more about Dr Young's research.

Ingram, who left for China on 26 May and had three weeks left of language instruction before joining Dr Young, said he was disappointed that he had to cut short his stay in China. "I was just settling in, making friends and classes were going well," he said,

adding that he planned to continue his study of the language here for the remainder of the summer.

On the events in China, Ingram, who witnessed a demonstration in Xian, said: "The picture the Chinese government is sending out is very distorted; I've seen the propaganda campaign and it's pretty blatant."

Dr Young said, "I think we're getting a pretty one-sided view from the media of what's happening in China. It will be a long time before we know all of the complexities of the situation."

Dr Young, who, along with Ingram, was to have met well-known Chinese anthropologist Fei Xiao Tong this summer, said it is important that social scientists continue their contacts with the Asian nation. □

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Bellow appointed to Facilities post

Donald Bellow, a former Chair of
the Department of Mechanical
Engineering, has been appointed
Associate Vice-President (Facilities).
Dr Bellow began his five-year term
of office on 1 June.

Dr Bellow has been with the
University for more than 30 years,
first as a graduate student (MA and
PhD in mechanical engineering),
then as a faculty member. He led
the Department of Mechanical
Engineering from 1975 to 1984.

Over the years, he has taught a
number of undergraduate and
graduate level courses, including
engineering dynamics, introduction
to design, thermodynamics,
mechanical vibrations, advanced
experimental strain analysis,

theoretical elasticity, and elastic
and dynamic stability. He has
served on numerous Faculty and
University bodies, for example, the
Senate, General Faculties Council,
Engineering's 75th Anniversary
Committee, the President's
Committee on Technical Services,
the Faculty of Graduate Studies
and Research Committee on
Residency Requirements, and the
Fund for Support of International
Development Activities.

Dr Bellow is a past president of
APEGGA and a member of its
Council and Executive Committee.
He is also the Alberta Director of
the Canadian Council for
Professional Engineers. □

About that telephone service failure . . .

*The following statement was written by
Kevin Moodie, Superintendent of Plant
Operations.*

On 14 June, at approximately
3:10 pm, a telephone service failure
was experienced by the University
campus.

Approximately one third of all
telephone lines (University,
University Hospitals and Cross
Cancer Institute) were out of
service for almost 25 minutes. The

initial report from 'edmonton
telephones' indicated computer
switching equipment (located in
the Strathcona exchange) had
failed. 'edmonton telephones' is
following up with an engineering
review with Northern Telecom, the
supplier of the switching
equipment. Their findings will be
made available once the University
is made aware of them. □

Erickson first Agricultural Business Management graduate

Agricultural Business Management program at the University of Alberta has its first graduate. Lorne Erickson of Red Deer earned his BSc this spring.

"We're proud to have him as our first graduate," says Len Bauer, director of the program. "We have 12 in the program right now and we'll be reviewing applications within a month or so."

Erickson, who is now employed by Hoechst Canada as a technical sales representative, says, "I think it's a step in the right direction in that there is certainly a need for more business management skills, especially at the farm level."

According to Dr Bauer, the program is unique in Canada, combining the expertise of two strong and well established faculties, the Faculty of Business and the Faculty of Agriculture and Forestry. The program is interdisciplinary; its administrative home is in Agriculture and Forestry. For its part, the Faculty of Business plays a major role in instruction and in supporting arch.

Dr Bauer said the vision for the program can be traced back 12 or more years to those people in the Department of Rural Economy who foresaw the need for the program. As well, Agriculture and Forestry graduates surveyed in the early 1980s said that they would have liked more education in the business management area. These sentiments, combined with the dreams of faculty members, ultimately lead to the creation of the program. As well, the agricultural community provided much needed help and encouragement in identifying the need for the program and the designing of its content.

The purpose of the four-year program is to provide the agricultural industry with graduates who not only have the desirable agricultural background, but who also have the business expertise to assume managerial positions in the agricultural sector.

The program includes agricultural core courses in animal, plant and soil science, agricultural engineering and agricultural policy. These courses are augmented with business courses in accounting, finance, economics, marketing, human relations and analytical

techniques. Normally, in their first year of instruction, the students take a program common to that of the first year BSc (Agriculture). A quota number of students are then admitted into the program in second year.

Graduates of the program can expect to find careers in the production sector (farm and ranch businesses), in agri-business (input supply, marketing and processing firms), in advisory roles in the

private sector (banks, consulting firms), and in the public sector (government, extension). Dr Bauer adds that the program not only turns out farmers, but trains graduates to assume positions in all aspects of the agricultural sector.

On the issue of how well the program is being received by the students, Dr Bauer says: "I think they're very happy with what we're doing. I find students are asking far more business-oriented

questions than they did a dozen years ago."

What does the future hold for the program? Dr Bauer says teaching is only one aspect of the program and "as we move ahead, we'll want to get more involved in research." Citing a tremendous deficiency of good financial data on the agricultural sector, Dr Bauer believes that such research could potentially add a great deal to the knowledge base. □

Don't dismiss popular music, educator insists

Popular music should not be dismissed simply as sex, drugs and rock and roll, says Bob Henderson, a McMaster University outdoor educator.

Speaking at the Ninth Annual Conference on Teaching and Learning in Higher Education, held at the University of Alberta 17 to

20 June, Henderson said contemporary music is much more sophisticated than it once was and this has gone largely unnoticed by academics.

At his hour-long session titled The Use of Contemporary Music to Enhance Academic Presentations, he said using contemporary music

to introduce classroom themes might help floundering academic content.

"I didn't go to music because I love it, but because I needed it," he said. "I use as much popular culture as I can."

Using examples from singer/songwriters Bruce Cockburn, Scott Merritt and Loudon Wainwright, Henderson said popular music contains a great deal of symbolism and many 20th-century themes, such as environmentalism, detachment, violence and the impossibility of pluralism. He said Merritt's songs could be considered great poetry and they challenge many 20th-century assumptions.

The conference, held for the first time in Western Canada, provided faculty, teaching assistants, educational researchers, counsellors and administrators an opportunity to examine ways to improve teaching and learning in postsecondary education. The conference was hosted by the University of Alberta.

In addition to plenary sessions, the conference also featured more than 50 workshops, presentations, demonstrations and round table and panel discussions.

The conference was organized by the Office of the Committee for the Improvement of Teaching and Learning (CITL).

CITL Coordinator Bente Roed Cochran said the conference was extremely successful. She said it was important that the conference be a success, so the Society would be willing to hold another conference in the west. Two hundred and thirty-three people attended the conference. □

Forsyth claims Canadian Composer of the Year laurels

Malcolm Forsyth has been named Canadian Composer of the Year by the Canadian Music Council.

"What made the difference was the number of performances of my music," Professor Forsyth says. More than 100 performances of his compositions have been given in the past three years.

This exposure, then, as well as the profile of the concerts where his works were premiered, caused the Ottawa-based Council to award the citation to Professor Forsyth.

He is to be presented with the award in Vancouver in November.

In the meantime, his pen isn't on vacation. "I have six new compositions on my plate now, and all sets of deadlines are looming," he says.

Besides the commissioned works, Professor Forsyth is working on "a functional piece of processional music" for the installation of President-elect Paul Davenport on 11 October. Sixty seconds of trumpets will precede three minutes of music with repeat bars at the end.

Last October, Professor Forsyth's "Fanfare and Three Masquerades"

became the feature piece on the Canadian Chamber Ensemble's new compact disc, "Masquerade."

Although best known as a composer (his credits include a Juno Award for Best Classical Composer in 1986), Malcolm Forsyth is also a trombonist, conductor, and teacher of theory and composition. He has been with the Department of Music since 1968. □

Dunford named Acting Director of Research Services

Brian Dunford has been appointed Acting Director of Research Services for a period of six months, effective 1 July.

Dr Dunford is currently serving as Research Coordinator in the Office of the Vice-President (Research). He is also a Professor of Chemistry.

RE Armit, Director of Research Services since 1983, is about to start work in technology development and commercialization at Carleton University. □

Doris Badir Fellowship in Child Development established

The Doris Badir Fellowship in Child Development has been established by the Faculty of Home Economics to honor a distinguished home economist for her service to her profession and institution.

The fellowship was established in recognition of Professor Badir's efforts as regards the healthy development of children in family and family-like settings. Her sense of commitment was very much in evidence during her career as a provincial, national and international leader in home economics.

Professor Badir has been active in child development for many years; she served as a teacher in the child development program in home economics at the University of Guelph and developed the first

"model" child care facility in that program.

She also served as chair of a local child care board and as a member of local and provincial groups studying and promoting child care issues. She has been a spokesperson for child care in Edmonton and Alberta and presented the Vanier Institute's position on child care to the Parliamentary Task Force.

Professor Badir is a former Dean of the Faculty of Home Economics at the University of Alberta and past president of the Canadian Home Economics Association. She has also been a member of the board of the Vanier Institute on the Family, an organization that assesses the impact of social and economic issues on families in

Canada. Professor Badir has recently been elected president of the International Federation of Home Economics.

The fellowship will be awarded to a home economist enrolled in a graduate or postgraduate program with a research emphasis on children and their interactions within family and family-like settings. This includes such areas as: parenting, children in child care programs, special needs children, parent-child interaction, preventive programming for child abuse, family nutritional needs and the provision of child care as a support service for families.

Successful applicants for the fellowship are expected to possess outstanding academic qualifications and to develop research projects

which focus on resolving daily issues of caring for and nurturing children.

The campaign goal is to raise \$100,000 from the private sector; the fellowship will be supported by interest earned on the endowment.

So far, between \$10,000 and \$11,000 has been donated, says Eloise Murray, Dean of the Faculty of Home Economics. The Faculty also expects the provincial government's matching program to complement money raised from private donations.

"I'm generally optimistic and pleased with the response from former students," she says, adding that the Faculty is hopeful an award will be made in the next academic year. □

Neuman inducted into Royal Society of Canada

Shirley Neuman (English) has been inducted into the Royal Society of Canada. Dr Neuman was admitted to the senior national organization of distinguished Canadian scholars earlier this month.

Dr Neuman is well known for her scholarship in three primary areas: Canadian literature, autobiography and women's writing.

She has published three books: *Gertrude Stein: Autobiography and the Problem of Narration*, 1979; *Some One Myth: Yeats's Autobiographical Prose*, 1982; and *Labyrinths of Voice: Conversations with Robert Kroetsch*, 1982 (co-written with Robert Wilson).

Dr Neuman has also edited *Another Country: Writings by and about Henry Kreisel*; she co-edited *Writing Canadian Women Writing and Gertrude Stein and the Making of Literature*.

Dr Neuman is a recent recipient of a McCalla research professorship and during the next year will build on her earlier work on autobiography. In the major section of her study, she will attempt to theorize a more inclusive poetics of autobiography.

"I aim at a poetics that would have sufficient descriptive power and flexibility to include both men's and women's autobiographies and to acknowledge the differences

between them; to allow for the differences between women's autobiographies written before and from within the latest feminist movement, between those

'conforming' to and those 'transgressing' conventional generic boundaries and ideology; and to allow for the effects on gendered self-inscription of other aspects of

the writer's subject-position such as ethnicity, nationality, age, etc.," she outlined.

The first part of her study will question the extent to which theories of the impossibility of the woman autobiographer's constructing herself as a subject exhaust the range of work and strategies of women autobiographers prior to the current feminist movement. Another portion of the study will deal with autobiographies in which the self-inscription of the woman subject has been influenced by feminist theory and praxis.

"One of the things that has always been important to me about scholarship is that one does things locally," Dr Neuman said. "I've always felt that one didn't just work away in one's corner on Canadian literature as a critic, or autobiography as a critic, so I've always been active locally in the activities of my own community—and that's partly what my involvement with the Women's Studies Program has been about," she said, adding that she worked for many years with local presses.

Dr Neuman, who is stepping down from her position as Chair the Women's Studies Program, expects she will complete her McCalla research work within one year. □

Walter Stirling Anderson Chair established



Dr Anderson and Health Minister Nancy Betkowski at the unveiling in the Department of Surgery foyer, Mackenzie Health Sciences Centre.

Walter Stirling Anderson, who retired as Clinical Professor of Surgery in 1975, returned to campus on 19 June to unveil a bust of his likeness. The bust, executed by John Weaver, was unveiled by Dr and Mrs Anderson in conjunction with the creation (by the University of Alberta and the Royal Alexandra Hospital) of the Walter Stirling Anderson Chair of Surgery.

Dr Anderson was a member of the Faculty of Medicine at this University for 34 years. He was also Chief of Surgery at the Royal Alexandra Hospital for an unprecedented 22 years.

Donations to the Walter Stirling Anderson Chair of Surgery will support the appointment of an additional surgeon at a full professorial level. □

Celebration on the green

The Arts Court took on a village green look when well-wishers from across campus gathered to celebrate the 10-year presidency of Myer Horowitz. Offices closed at 3 pm on 16 June and the cares of the day had no chance in the face of music, banners, balloons, refreshments, and semi-fair (for part of the time) weather. There was ample opportunity to mingle, greet the Horowitzes, sign one of the six guestbooks, look at a detailed exhibit of the Horowitz years, and soak up the atmosphere.



Carol Horowitz flew in from Montreal to be with her parents and sister.

Photo Services



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"Watch that proboscis, big guy."



Photo Services



Public Affs

Myer, Barbara, and Debbie Horowitz, and Helen Collinson had a chance to view the display (all credit for which goes to University Archives and Collections) before people turned up en masse.



The campus turned out in force to thank Dr Horowitz.



Photo Services

Photo

Big picture's planning, enrollment and budget hues grow more vibrant

Peter Meekison, Vice-President (Academic), delivered this Report to Convocation on 6 June.

I have now completed my fifth year as Vice-President (Academic) and in this year's Report to Convocation I would like to review some of the significant highlights of the past five years. The years 1984-89 have been years of transition and change. Examined individually, it is difficult to identify a particular or single issue that dominated them. Reviewed collectively, certain themes emerge. These are planning, enrollment, and budget.

Turning briefly to each theme.

Planning

In 1983 the University embarked on an ambitious planning activity. In retrospect, this initiative was linked to the enrollment increases which began in 1981 and the deleterious effect this sudden and dramatic increase had on the budget. At the same time (in 1983), the University celebrated its 75th birthday. The University community asked then, what about the next 75 years? Where do we go from here? What type of institution should this be? To me, the pressures caused by enrollment increases and the realization that the University had undergone change and was on a new threshold, were the two strands interwoven in the two planning documents produced by my office. The first one, entitled *The Next Decade and Beyond*, was published in the spring of 1986. It set out certain goals and objectives which generated a great deal of discussion both within and outside the University.

This first document was followed by a second one entitled *Draft Policies, the Next Decade and Beyond*. From widespread discussion and response to the first document, certain directions the University should follow became apparent. The first was the strong desire to bring our spiralling enrollment under control, while the second was to develop the graduate program at the University.

The expansion of the graduate program is the next step in the continuing evolution of the University. Not surprisingly,

during the past few years research activity at the University has increased substantially as have the dollars associated with the research. To me, the two phenomena are closely related.

While it is a truism to say that universities are involved in research, it is a reality which is often overlooked by people outside the university community. We understand our mission, which is the generation and dissemination of knowledge, but we cannot assume it is universally understood or, indeed, accepted.

The continuing references to graduate work have, unfortunately, led to concerns that our undergraduate programs will either languish or be ignored. Nothing can be further from the truth. As you will hear in a few minutes, our undergraduate programs are constantly under review and are being modified or expanded to meet the needs of our students. In addition, it is my firm conviction that a strong research emphasis will enhance the quality of our undergraduate programs.

Let me conclude this portion of my report by stating that the planning document sets out a series of goals and objectives which will need to be continuously assessed as the circumstances in which the University finds itself change. It is not a blueprint with a predetermined set of instructions. Instead it is a guide for action which gives direction to exploration of many potential alternatives. Change is gradual in a university and is effective only if all parts and groups within the organization have had an opportunity to address the proposal. One area which has received preliminary review and which will be the subject of intense review is the idea of a core curriculum. Both the Academic Development Committee and Deans' Council have reviewed this idea and a full-scale assessment will be initiated next year. In my opinion, this study will also lead to a general review of our curriculum. Rather than being concentrated on one part of the University, it will include all Faculties.

To me, the planning discussions force the University community to

examine its priorities and establish new directions.

Enrollment

For the past few years our enrollments have increased. In the spring of 1984, two decisions were made in an attempt to deal with the problem. Entrance standards were increased from 60 to 65 percent and a limit of 4,500 was placed on the number of first year students. When I assumed this position, my first task was to monitor the number of first year applications and to develop a strategy on how to make enrollment management decisions within the limitation of space and other resources. As it turned out, we underfilled our quota by about 300. We thought the crisis was over. The enrollments had crested. Not so. The class of 1989—this year's graduating class—arrived in greater numbers than we had anticipated. We thought this wave which engulfed us would be temporary. We were wrong. Unfortunately, it became necessary for us to set a global enrollment figure not on first year students, but on the size of the University. Two years ago at Convocation, I recommended that entrance requirements be again increased, this time to 70 percent, and the University limit its size to 25,000 students. We were bursting at the seams and were not able to do the job we felt we must do.

Last fall, after the first application of the new policy, our enrollment fell by 850 (full- and part-time). The real question is what will happen in the fall of 1989. Will it continue to fall as we had projected, or will the same phenomenon we experienced in 1985 be repeated? We know that students are staying longer in high school, that they are working harder and that this effort is reflected in better grades. At the same time, we know that the profile of our student population is gradually changing. The average age is going up and this year, one half of those students who were new to the University did not come directly from high school. Should our enrollment increase sharply, it may be necessary to develop a different policy response. One such

response would be to establish quotas for all Faculties. Should enrollment level off, I will recommend a wait-and-see approach because our target of 25,000 was to be achieved by 1997.

When we adopted our enrollment management policy, we sent shock waves throughout the postsecondary system. If the University of Alberta would not admit students, where would they go? For the first time in recent memory, questions associated with limited access to postsecondary education were being raised. "System" issues have become more prominent. In the fall of 1988, the University of Calgary followed suit by capping its enrollment. Thus, the two largest postsecondary institutions which account for 32 percent and 21 percent respectively of the total full-time enrollments, have made decisions which have had a significant impact on the rest of the system. If the students do not turn up on our doorsteps, there is no problem. If they do and are turned away in droves, then there is clearly a dilemma which will need to be addressed and this University, as the senior university in the province, will work with the other components to see what can be done to ameliorate this problem without, of course, sacrificing the academic integrity of our programs.

Budget

The third theme of the past five years has been budget. Education is expensive and is a long-term investment. Over the past few years there have been enormous pressures on the budget.

There are basically two ways in which one can examine the budget: expenditures or revenues. We rely on two principal revenue sources, the provincial government grant and tuition fees. The University has no say over the size of the annual operating grant or tuition fee increases.

Why are there financial problems? Is the University not well managed? On the contrary, it is very well managed. Universities are both labor and capital intensive. With respect to hiring faculty, we must be able to compete not only with other

universities both in Canada and elsewhere but also with the public and private sectors. Our faculty salaries must remain competitive. If not, we will have trouble recruiting new staff and retaining existing staff. Brain power is highly mobile. At the same time, to be effective in teaching and research we must ensure that our equipment is as up to date as possible and in working order. It would be unthinkable to ignore the tremendous changes which have taken place in the type of equipment needed for research in medicine, science and engineering, or in computing. If we are to push back the frontiers of knowledge, we must have the necessary materials. For example, in many major US universities, new faculty are, on average, receiving \$250,000 in grants to equip labs. This is the market in which we are competing. Some people shrug and say we cannot afford this luxury. My answer is, on the contrary, we ignore this reality at our peril.

Why? There are several reasons, but two stand out in my mind. The first is that our students should be familiar with the equipment and technology they will be required to work with upon graduation.

Secondly, we will not recruit or retain faculty who need this equipment to conduct their research. They will be attracted elsewhere.

What I have said about equipment is equally true about another resource—the Library. The Library is not a warehouse. It is a treasure house. The Library is at the core of each excellent university. Over the past few years, we have added money to the Library budget, but that budget has been subject to exchange rates and price increases far beyond the cost of living. As a result, the materials budget has been decreased to the point where the teaching and research capacity of the University is being threatened.

An excellent teaching and research university requires the maintenance of the basic Library collection. Over the past few years, the integrity of our collection has been gradually eroded.

Time does not permit me to go into greater detail on any one of these three themes. Clearly they are linked and I fully expect that they will be discussed in the years ahead.

I would like to review some of the academic highlights of the past five years. A university is constantly undergoing change. Programs are modified, new

courses are added, some are deleted. Over the past five years, several new degree programs have been approved, most of which are now in operation. They include four year degrees in the Faculties of Arts and Science, and Faculté Saint-Jean; a BSc degree in Agricultural Business Management; a BA in Native Studies; a BA in Women's studies; an accelerated route in Occupational Therapy; and an MSc degree in Psychiatry.

Degrees approved and which will start next fall include a BA in Film Studies, a certificate program in Gerontology offered by the Faculty of Extension, and a combined BEd BSc degree.

Some degree programs have been approved but await government funding. They include a PhD in Nursing which, if funded, would be the first such program in Canada, and a BSc in Hotel and Restaurant Management. In addition, the BA in Native Studies is not fully funded.

Quotas were reduced in the Faculty of Pharmacy, were increased in programs in the Faculty of Rehabilitation Medicine, were introduced in the Faculty of Physical Education, and were expanded in the Faculty of Medicine to accommodate two native students. I should also note that a proposal for a quota in the Faculty of Education is currently being considered. Finally on the subject of quotas, the five-year review of all quotas will take place in 1989-90.

I have mentioned these programs and policies in some detail because they underline the fact that our undergraduate programs are constantly under review. Perhaps more importantly, they reflect the richness and diversity of degree programs offered by the University. Also of note is the reality that many new degree programs require inter-faculty cooperation.

Turning now to a few different subjects. Over the past five years, 15 institutes were established. They include the Women's Research Centre, the Western Centre for Economic Research, the Centre for Constitutional Studies, and the Alberta Centre for Machine Intelligence and Robotics.

A number of Chairs have been established, including the very important David Peikoff Chair in Deafness Studies in the Faculty of Education and the Huculak Chair in Ukrainian Culture and Ethnography. As a result of the

Competitive Edge Campaign, several Chairs were established in the Faculty of Business, three of which have been filled. Several Chairs were also established in the Faculty of Medicine.

Whenever I feel discouraged by some of the problems confronting the University, it lifts my spirits considerably to reflect on the new programs or initiatives the University has undertaken.

To finance some of these activities, the University has had to raise money from external sources ranging from its alumni to foundations or individuals who are friends of the University. These funds were generously matched by the provincial government. At the same time, the University, through the budget process, has reallocated funds through what is referred to as the Budget Adjustment Fund. During the past five years, approximately \$10 million has been allocated through this process to units for which the Vice-President (Academic) is responsible. While I do not intend to describe every dollar spent in this manner, a few specifics will give you some understanding of the importance of the Budget Adjustment Fund and our ability over time to reallocate resources internally. For example, funds were used to expand the Department of Computing Science in response to demands by students for programs in this area. Money was given to the Faculty of Graduate Studies and Research to top up graduate scholarships. A new Science and Technology program was established in the Faculty of Arts. Funds were allocated to the Library to help maintain the real dollar value of the Book Fund, to increase the number of microcomputer labs and to establish the telephone registration system. As a result of the Budget Adjustment Fund, over 70 new permanent faculty positions have been created. Twenty-five of these have been funded from the Special Initiatives Fund. These positions range from biotechnology to computers in education, to a Pacific Rim economist, to an archeology position specializing in Alberta, to a position in bioethics. They represent tangible evidence that the University is committed to expanding its horizons and ensuring that its students are exposed to new fields of inquiry. To fulfill this commitment, it has been necessary for us to reorder our internal priorities through the budget process.

The University faculty are a dedicated group of individuals who spend countless hours in the classroom, preparing lectures, and undertaking their research. We are very well-served by our faculty. Without them one would not have a university. It is people who make this a great institution. While the vast majority of the faculty are permanent continuing members of staff, we also have many others who make important contributions to the University, either as sessional lecturers or as visiting professors.

In this context, I am pleased to announce today that the Honourable Douglas Roche, Canada's Ambassador for Disarmament, will be joining the University next fall as a Visiting Professor of Political Science. He will be teaching courses in that department on Canada's role in global peace and security. I would like to welcome Dr Roche to the University.

As I mentioned in my introductory remarks, the past few years have been years of change. To me they have been exciting years. They have demonstrated that the University is a vibrant, vital and exciting institution where intellectual curiosity abounds, where individuals can ask questions and reflect on great issues of life and can search for truth. The events of the past few days in China, in Iran, in Poland; advances in science; changes in Canadian-American trade relations, to mention but a few current examples, make one appreciate the need for education. You, as tomorrow's teachers, have a tremendous responsibility, not only to keep up with these changes but to ensure that your students are educated to think and to cope with a rapidly changing world.

To establish the proper climate for learning requires effective leadership. It has been my privilege to have served under a most effective and distinguished University President, Dr Myer Horowitz, who has given so much to the University. In thinking of Dr Horowitz, the words leadership, service, and compassion come readily to mind.

To those of you who are graduating today in the Faculty of Education, if you want a role model, a person who has committed his life to the field of education in the broadest sense, look no further than President Horowitz. □



LETTERS

Student responses not valid evaluations of teachers

I believe Professor Osborne's comments on student evaluations (*Folio*, 15 June) are very timely, indeed. I have taught at this University for 29 years and have just completed, for the third consecutive year, a beginning course in biology (300+ students) after a break of some years from freshman instruction. Upon reading the student evaluations each year, I find myself in a state of confusion. How does one interpret them for one's own use and how useful might they be to my chairman? Each year my ratings have spanned the entire spectrum from "worst" to "best" for virtually all the response categories. How does one interpret this range when the overall distribution forms a reasonable facsimile of the normal curve? Does one assume one is doing an average job? And, if so, ought we as teachers to be content with such an interpretation? If one assumes that those who rate one as a rotten teacher are among the more intellectually sophisticated and hence more demanding, one is led to conclude that one has indeed been

found wanting. Or does one take solace in the opposite interpretation, namely that those students who indicated that one has done an outstanding job of teaching are among the brightest and hence the most discriminating, leading one to disregard the comments of the opposite group?

I am advised to consider the written comments on the evaluation sheets (when and if present). I am afraid I do not find them very helpful. How does one deal with these comments when one student says "he is a very boring lecturer" yet the next says "I found him to be a very stimulating teacher"? I note that there is a relatively stronger representation of written comments from students who give ratings at either end of the range, which is perhaps understandable. There is also a strong relationship between bad-to-good ratings and derogatory-to-laudatory comments. So I ask myself what possible use are these evaluations to me, my chairman, and my Faculty? Are they not an exercise in futility and waste of University resources?

I suggest that these student responses are not valid evaluations of teachers at all but rather only a measure of how well a teacher manages to comply with the students' preconceived notions of the role we teachers should be playing. I base this conclusion on both my own experiences and those of other colleagues. In my own case, I noticed one interesting fact emerging consistently from the students' evaluations of my course: a negative relationship between ratings of me and the degree of distaste for the nature of the exams I set. I require that my students communicate their understanding of subject materials in a written form, giving essay exams which I correct myself. Their response to such exams and their success in writing them is, I fear, as much a reflection of their approach to course materials as it is of my ability or lack of it to be an effective teacher. I am fearful that students, in ever increasing proportions, are coming to us with the mistaken view that the memorization of facts alone is an appropriate means for overcoming the examination hurdles, and as consequence they acquire the false impression that they have mastered the subject matter of the course. This view may, in fact, be reinforced by their relative success when writing multiple-choice exams which require no ability to communicate their understanding of course content in either written English or French. I ask myself, are we being responsible teachers when we embrace an examining technique that is easy for us and popular among the students? (PS The results of my students' evaluations put me in the "safe" zone, too.)

DA Boag
Department of Zoology

CURRENTS



Assistance with Visual Identity Guidelines

If you are working on a brochure or handout and would appreciate guidance to ensure that your publication conforms to the University of Alberta's Visual Identity guidelines, please call Graphic Design and Illustration Services, 492-3461.

Also, a reminder that Public Affairs has a healthy supply of the brochure "Building Our Image: A Guide to the Visual Identity Program." Call 492-2325 for copies.

Research Services publishes Directory of Institutes, Centres and Groups

The Office of Research Services has just published the Directory of Institutes, Centres and Groups.

Bob James, Vice-President (Research), comments, "To the degree that this Directory succeeds in making our own University community more aware of the expertise and resources existing here, it will be a welcome addition to the University's publications."

Copies have been distributed to all faculty, administrative offices, and institutes, centres and groups on campus. Additional copies can be obtained by calling Research Services at 492-5360.

Workshop rings bell with administrators

The second annual University Management Workshop took place on 21, 22 and 23 June at the Stollery Executive Development Centre.

The 50 participants (an increase of 10 from last year) heard about and discussed current issues facing universities and examined a variety of management roles. Topics ranged from "The Histories of Universities" to "Strategic Management Under Conditions of Uncertainty" to "University and the Law - Employment Law." The case-study approach was used extensively.

This year, the workshop's sponsor, the Advisory Committee on Professional Development, invited other Alberta colleges and universities to send representatives. Joe Batty, Vice-President Finance and Planning at Red Deer College; William Glanville, Dean, Business and Health Sciences Division at NAIT; and Rob MacKenzie, Director of Financial Affairs at Grant MacEwan Community College, took advantage of the opportunity. Each was impressed by the program, saying that the speakers came well prepared and that the issues were not restricted to universities. They welcomed the chance to meet people at the University of Alberta, people they see as a potential resource.

Mr MacKenzie termed the workshop "a very professional show." □



With the workshop being an intensive affair, participants welcomed the invitation to step outside.

Photo

Library receives reserve fund from 'Dollars and Sense of Licensing' conference

Library administrators are pleased that it was not end of story when the March 1989 conference "The Dollars and Sense of Licensing" concluded.

The conference, organized and hosted by the University of Alberta (read: the Office of Research Services) in collaboration with the Licensing Executives Society and Alberta Technology, Research and Telecommunications (ATRC), was successful to the extent that there was a reserve fund of \$3,000. (The conference was attended by 125 people from industry, government, legal firms, consulting firms and universities.) The organizers, wishing to support the growing scientific and business community which is interested in patenting and licensing, donated the fund to the Library on 19 June.

RE Armit, Director of Research Services, referred to science and technology literature and to the completely separate area of patent literature. About 70 percent of closures made available through patents are never published in any other manner, he said. "We're concerned about making patent information available to the University community and to the broad community."

Mr Armit encouraged the Library to investigate the possibility of forging links with DERWENT Inc., "probably the premier organization for examining patents."

The Library is spending upwards of 70 percent of its funding just to keep various journals going so it's often difficult to buy books, said



Bill MacDonald, Technology Development Officer, turns the donation over to BJ Busch. Others who attended the presentation in Cameron Library are (from left): Doug Thompson of the Licensing Executives Society; Lillian MacPherson; RE Armit; Margo Young; Ade Ajao, Director of Technology, Alberta Technology, Research and Telecommunications; and John Teskey, Acting Chief Librarian.

BJ Busch, Area Coordinator, Humanities and Social Sciences Library. "The materials purchased will be helpful in legal, scientific and economic areas," she added.

Lillian MacPherson of the Law Library said that she is not aware of a strong patent collection in Western Canada. "We've been under some pressure to develop one . . . we're trying to buy, from the legal standpoint, almost everything published. The donation will certainly help us."

She pointed out that the University can now search patents worldwide.

Margo Young of the Science and Technology Library, told the group that one of her colleagues, Sandy Campbell, has been invited to visit the Canadian Patent Office in Ottawa to get an overall perspective of its workings. □

(Field) day of days at Breton Plots

"Forage Crops and Sustainable Agriculture" is the theme for this year's Breton Plots Field Day, 7 July.

Speakers from the Department of Soil Science will discuss the use of grey-wooded soils for forage production, the role of livestock in forage production system, and the economics of producing forage. Look, too, for plot tours (the plots are some of the oldest long-term research plots in the world), a

soil-crop clinic, and demonstrations of a net wrap baler.

The Breton Plots, located about 100 km southwest of Edmonton on highway 39, have been the site of experimental work for 60 years, an important factor being the grey-wooded (luvisolic) soils which are low in sulphur, nitrogen, and organic matter.

The field day begins at 10 am; lunch will be served. □

EVENTS



Talks

Faculty of Medicine

29 June, 4 pm H Cris Fibiger, University of British Columbia, "Neuropharmacology of Central Dopamine Neurons as Studied by In Vivo Microdialysis and Voltammetry." 207 Heritage Medical Research Centre.

Physics

5 July, 3:30 pm F Ehlotzky, University of Innsbruck, "Scattering Processes in Strong Radiation Fields." P631 Physics Building.

10 July, 3:30 pm JS Levinger, Rensselaer Polytechnic Institute, "The Nuclear Three-body Problem." P631 Physics Building.

13 July, 3:30 pm B Fain, Tel Aviv University, "Memory Effects in Relaxation." P631 Physics Building.

Alberta Heritage Foundation

for Medical Research

11 July, 9 am Al Merrill, Emory University School of Medicine, "Enzymology and Regulation of Sphingolipid Metabolism and Possible Implications for Cell Function." 207 Heritage Medical Research Centre.

A lost COSS

General Faculties Council recently approved a change of name for the Council on Student Services (COSS). It is now known as the Council on Student Life.

The proposal for the change was worked up by an ad hoc committee struck to review the name and current terms of reference of the Council. The committee felt that Council on Student Services could be easily regarded as a council of Student Services, that is, of those administrative units reporting to the Dean of Student Services.

It was pointed out by the committee that the range of Council's concern extends far beyond "services" provided to students. Its mandate requires it to consider any matter which might have an impact upon the lives of students. □

Positions

The University of Alberta is committed to the principle of equity in employment.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Program Officer, International Centre

The International Centre at the University of Alberta is seeking an experienced and energetic Program Officer to develop and administer programs. The International Centre is a University department within Student Services responsible for encouraging an international dimension throughout the University. The Centre provides services, programs and support to foreign and Canadian students, faculty and staff.

The Program Officer will be required to prepare and administer program budgets, design and implement programs, administer existing programs, supervise volunteers, and plan and facilitate development education activities on campus.

The position is based upon a one-year renewable contract with a starting salary of \$26,000 (under review) and includes a comprehensive benefits package. This position is to commence on 1 September 1989 and is being offered subject to funding approval.

Necessary skills and experience:

- direct international programming experience, including program planning, implementation and evaluation;
- demonstrated administrative abilities;
- knowledge and experience related to development education;
- excellent interpersonal and cross-cultural communication skills;
- ability to work well in team environment;
- volunteer management;
- university degree in related field;
- considerable volunteer experience.

The ideal candidate will possess the following additional skills and experience:

- microcomputer experience;
- fluency in at least one additional language;
- experience in working with university academic, administrative and student service areas;
- experience living, working or studying abroad or in another culture.

Submit by 14 July 1989 a letter of application, résumé and names of three references to: Mrs Sharon Schultz, Administrative Assistant, International Centre, 172 HUB International, University of Alberta, Edmonton, Alberta T6G 2E2. Telephone (403) 492-2692, FAX (403) 492-1134.

Tenure Track Position, Department of Educational Psychology

The Department of Educational Psychology invites applications for a 0.50 tenure track position with specialization in the areas of development, learning or adolescent psychology. Part of the assignment will include the teaching of undergraduate and graduate courses in these specialized areas of educational psychology. The balance of the assignment will be developed in conjunction with the Assistant Dean (Practicum) and will help establish and sustain collaborative, school-based practica as well as help develop and provide in-service seminars for cooperating teachers and principals. This individual will provide an important link for the department with the BED program and with school-based personnel.

The appointment will be at the Assistant Professor level effective 1 September 1989. Current salary range for a full-time position is \$33,144 to \$47,280 per annum. On an annual basis, as need requires and budget permits, there will be additional teaching and supervisory assignments available to the appointee in order to establish the equivalent workload of a full-time position. Applicants must have a completed PhD degree and have an active research and publication record.

Applicants should forward the following materials:

1. A formal letter of application.
2. An indication of fields of current academic interests.
3. A detailed curriculum vitae.
4. Three letters of reference.

These materials should be directed to: Dr Eugene Romaniuk, Chair, Department of Educational Psychology, University of Alberta, 6th Floor Education North, Edmonton, Alberta T6G 2G5.

The closing date for applications is 15 July 1989; all documentary material must have been received by that date.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 23 June. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR. Positions available as of 23 June 1989.

The salary rates for the following positions reflect adjustments in accordance with the terms for the implementation of the Pay Equity Program, effective 1 April 1989 for those positions in the "green-circled" and "white-circled" categories.

Senior Financial Records Clerk, Grade 4, Office of the Comptroller, (\$1,542-\$1,900)
 Clerk Steno, Grade 5, Anatomy and Cell Biology, (\$1,564-\$2,087)
 Clerk Steno, Grade 5, Faculty of Business (Accounting), (\$1,564-\$2,087)
 Clerk Steno, Grade 5, Universities Coordinating Council, (\$1,564-\$2,087)
 Purchasing Clerk, Grade 5, Materials Management, (\$1,617-\$2,087)
 Systems Control Clerk, Grade 5 (Recurring Term), Office of the Dean of Dentistry, (\$1,680-\$2,087)
 Senior Clerk, Grade 5, Pension and Benefits Administration, (\$1,685-\$2,087)
 Secretary, Grade 5, Stomatology, (\$1,685-\$2,087)
 Student Records Processing Clerk, Grade 5, Faculté Saint-Jean, (\$1,685-\$2,087)
 Accounts Clerk, Grade 5, Office of the Comptroller, (\$1,685-\$2,087)
 Secretary, Grade 6, Office of the Dean of Science, (\$1,806-\$2,298)
 Medical Steno, Grade 6, Obstetrics and Gynaecology, (\$1,806-\$2,298)
 Administrative Clerk (Telecommunications Assistant), Grade 6, Physical Plant Telecommunications Division, (\$1,844-\$2,298)
 Departmental/Executive Secretary, Grade 6, Faculty of Graduate Studies and Research, (\$1,844-\$2,298)
 Storeman, Grade 4, Zoology, (\$1,542-\$1,900)
 Storeman, Grade 4, Central Stores, (\$1,542-\$1,900)
 Technician, Grade 5, Zoology, (\$1,685-\$2,087)
 Dental Assistant, Grade 7, Dental Health Care, (\$1,885-\$2,516)
 Security Officer (40 hours/week), Grade 7, Campus Security, (\$1,964-\$2,876)
 Technician, Grade 7, Physics, (\$2,008-\$2,516)
 Biology Technician, Grade 7, Zoology, (\$2,008-\$2,516)
 Electronics Technician, Grade 9, Technical Services, (\$2,346-\$2,976)

The following positions retain salary rates in accordance with the current classification system and pay plan.

Clerk Steno II/III (Trust), Legal Resource Centre, (\$1,276-\$1,785)
 Clerk Steno III (Part-time, Temporary), Comparative Literature (\$711-\$893) (prorated)
 Clerk Steno III (Trust), Pathology, (\$1,421-\$1,785)
 Clerk Steno III (Trust), Faculty of Medicine, (\$1,421-\$1,785)
 Clerk Steno III (Trust), Glen Sather Sports Medicine Clinic, (\$1,421-\$1,785)
 Secretary (Trust), Gastroenterology, (\$1,584-\$2,023)
 Accounts (Billing) Clerk (Trust), Medicine, (\$1,584-\$2,023)
 Medical Steno (Trust), Pediatrics, (\$1,584-\$2,023)
 Medical Steno (Trust), Surgery, (\$1,584-\$2,023)
 Biochemistry Technician I (Trust), Pediatrics, (\$1,643-\$2,109)

Advertisements

Accommodations available

Sale - Windsor Park. Large, gracious, family home. Panoramic view. Open fireplaces. Main floor family room, French doors, patio, very private backyard. Five minutes downtown. Fully developed basement. Beautifully maintained. 439-3670.
 Victoria properties - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call collect (604) 592-3666, Lois Dutton, Wessex Realty, Victoria, BC.
 For your real estate needs in Victoria, BC, contact Stephanie Ustina, realtor. Wessex Realty, (604) 592-3666; res (604) 383-0983.
 Rent - Lansdowne. Four-bedroom home. Furnished or unfurnished. September 1989-September 1990. 492-3516, 434-3116.
 Rent - Furnished, four-bedroom house. Many extras, convenient location. Available August for one year. 492-2335 or 436-8808.
 Rent - Glenora. 1 August-1 June 1990. Three-bedroom house, den, sunrooms, dining room, double garage. Furnished, piano, washer, dryer, dishwasher, freezer. \$1,100/month. Janice or Andy, 454-2391, 429-5380.
 Rent - Grandview. Large, furnished bungalow, four bedrooms, fireplace. September-April. \$1,200. Western Relocation, 488-0056.
 Rent - South Petrolia. Executive home. Two storeys, four bedrooms. New, stylish, mature landscaping, fabulous kitchen, double garage. \$1,350/month. August 1989. Western Relocation, (403) 488-0056.
 Rent - Furnished condominium, one-bedroom/studio suite. University area, bright, spacious, stylish decor. \$1,250/month. Available September 1989. Western Relocation, (403) 488-0056.
 Sale - Four-bedroom, two-storey home. Next to the University Farm. All hardwood under carpet. The perfect home for a professor. Call Agnes Fisher, Re/Max Real Estate, 438-1575, 466-4070.
 Sale - Parkallen home. Huge living and dining rooms. Eat-in kitchen. Three bedrooms plus den. Separate entrance to basement suite. Nicely decorated. Agnes Fisher, Re/Max Real Estate, 438-1575, 466-4070.
 Sale - Grandview. Five-bedroom, four-bathroom, family home. 3,000' plus 1,000' developed in basement. New roof, gorgeous upgraded kitchen. \$254,500. Evan Potter, Potter Realty, 434-2183.
 Rent - Completely furnished, custom home, Valleyview. Twelve minutes to campus. All appliances. Fall to spring. No pets. Nonsmokers. \$800. 483-6300.
 Rent - Fully furnished, very attractive bungalow on Saskatchewan Drive, near University. Available 1 August 1989 to 15 June 1990. Dates flexible, rent moderate. Phone 432-7640.
 Rent - Quiet, easy access to University. One bedroom, reasonable, immediate. 482-7933, 430-7770.
 Share - House near University. Female, nonsmoker preferred. Furnished. Rent \$325 plus shared utilities. Available 1 July. Phone 437-3399.

Housesitter required, 2-24 August. 435-2453.

Sale - Condominium homes. Prime properties. University area, Saskatchewan Drive and Oliver, 1-2 bedrooms plus den. \$86,000-\$249,000. Some with pool and luxurious amenities. Helen Rhodes, 426-4461/24 hours. Re/Max Realty.
 Rent - Furnished, one-bedroom suite. Quiet, clean. Phone 433-6024.
 Sale - Riverbend. Excellent bus service to University. Mediterranean-style home, California stucco exterior, decks with panoramic view, five bedrooms, parquet floors in living room. Ann Dawrant, Spencer Realty, 436-5250.
 Rent - London, England. Furnished house. Two double/one single bedroom, living room, kitchen, bathroom, central heating, large garden, for 6 to 12 months, from 1 September. For further information, 469-2033.
 Sale - Belgravia. Two-storey bungalow of 2,200 sq ft. Three bedrooms, one and half baths. New kitchen. Private courtyard. Phone now. Valerie Cload, Spencer Realty, 436-5250, 433-4720.
 Rent - Half duplex, three bedrooms, yard and parking space. Near Southgate Shopping Centre. Seven minutes from University. \$580/month. 435-1929.
 Sublet - West end. Three-bedroom, 1 1/2-bath bungalow. Yard, garage. 29 July-18 October. Pleasant, quiet neighborhood. 487-1338.
 Rent - McKernan (University district), three-bedroom house, furnished. 1 September-31 December 1989. 435-7811 weekdays, 5-8 pm.
 Sale - University/Parkallen area. Spacious, three-bedroom semi. Hardwood, fireplace, superb location. \$95,500. Ed Lastiwka, Royal LePage Realty, 437-7480, 437-4984.
 Sale - By owner, Grandview. Raised bungalow, renovated skylights, jacuzzi, two fireplaces, five bedrooms, large deck. \$164,000. For appointment, 434-6958.
 Rent - North side, one-bedroom suite. Also north side, one-bedroom-plus-den suite. 456-1307.
 Rent - Central, attractive, renovated one-bedroom suite. Open beam (cathedral) ceiling, clean, quiet, secure. 456-1307.
 Rent - Three-bedroom bungalow, double garage, near University. Nonsmoker, no pets. \$700/month. DD. 1 August. 435-3287.
 Sale - Belgravia. Three-bedroom bungalow. Fully developed, good location. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
 Sale - Lake Wabamun. Choice of cottages. Quiet, secluded locations. For specific details, call Chris Tenove, 433-5664, 436-5250. Spencer Realty.
 Sale - Attractive, 1,500' bungalow on beautiful, pie-shaped lot backing onto park. Main floor family room. Call Chris Tenove, 433-5664, 436-5250. Spencer Realty.
 Sale - Aspen Gardens. Immaculate, LaBrenz bungalow. Nicely developed. Extra special garage. Quiet crescent location. Chris Tenove, 433-5664, 436-5250. Spencer Realty.
 Sale - Parkallen. 1,560', renovated, 1 1/2 storeys. Hardwood floors. Immediate possession. Chris Tenov 433-5664, 436-5250. Spencer Realty.
 Sale - Belgravia. Charming, 1,764' home. Three bedrooms plus den. Sun room. Fireplace. Beautiful yard, plus greenhouse. South backyard, quiet location. Walk to University. By

owner. Call Bill, 434-2312, leave message.

Sale - Windsor Park. Especially attractive bungalow. Well maintained, spacious, upgraded, on large private lot. \$169,000. 432-1882.

nt - Parkview, 15 minutes by bus to University. Three-bedroom bungalow, rumpus room, garage, four appliances. \$600 plus utilities. Damage deposit, lease. Phone 483-5691.

Available 15 July.

Rent - August 1989, twelve months. Large study leave home. South side, 15 minutes to campus, partly furnished, nonsmokers, no pets, rent negotiable. 492-5405, 492-0348.

Sale - Grandview. Price reduced, 1,856', brick bungalow on quiet crescent with south backyard. Two fireplaces, three baths, finished basement. Carole Anne Brown, Spencer Realty. 436-5250.

Rent - Windsor Park. Beautiful family home, two storeys, four bedrooms, study, family room, three bathrooms. Entirely renovated. Unfurnished. No pets, nonsmokers. References required. \$2,000/month. One-year lease. 439-3093 evenings.

Accommodation exchange

Like to try country living by swapping houses for one year beginning September 1989? Lovely house on 3 1/2 treed acres, 35 minutes from campus. University area preferred. 922-2647.

Accommodations wanted

Grad student available to apartment/housesit. September-June.

References available. Contact Margaret Nethercut, St Stephen's Theological College, 439-7311 or (306) 783-8490.

Goods for sale

Cash paid for appliances. 432-0272. Apple IIe, 80 column, two drives, Grappler, Roland printer. 492-0746 (days), 477-7439 (res).

Services

Donnic Word Processing - Since 1978, specializing in theses, manuscripts, etc. 453-2769.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Ave. 436-8059. Residential construction. Additions, renovations and new homes. Innovation Plus Developments Limited. Phone 434-0923.

Small group travel to Turkey this autumn. Exciting itinerary, exotic destinations. Join us! Golden Horn Tours, 10115 150 St Edmonton T5P 1P2. 483-8288.

Michener Park Playschool is now accepting registrations in two-year, three-year and four-year-old classes. Call Edith, 435-4636, or Sheila, 435-4570.

Summer canoe trips. Two weeks' pleasure. August. Yukon wilderness lake and rivers. Small group, guides, instruction. Experienced and beginner. Cost covers Whitehorse accommodation, transportation, meals, equipment. \$1,300. Unforgettable. Phone 433-7660.



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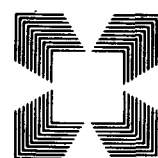
TRAVEL CUTS is pleased to announce the relocation and expansion of our *faculty and staff* travel office.

Effective July 4 we will be serving you from 9006 HUB Mall (formerly Edmonton Travel). In line with our new location and emphasis on serving the U of A faculty and staff, we have a new name... **SENATE TRAVEL**, a division of Canadian Universities Travel Service Ltd.

James Lavoie, Angela Jankovic and Mary Bochenko of our SUB office will be moving over to serve you, and will be joined by Lee Koehler of Edmonton Travel.

We wish to thank you for your support and look forward to serving you from our new location. We also wish to welcome clients of Edmonton Travel to avail themselves of our unique travel services and programs.

For your convenience you may continue to reach us at 492-2756 or 433-2494.



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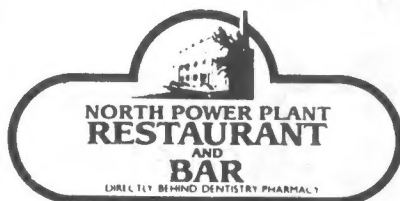
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